github.com/mahnoorcheema
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Mahnoor Cheema

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Education

BaSc Computer Engineering   Sept 2015 - Nov 2019
- Engineering Merit Scholarship (2018 - 2019)
- Dean's Honor List (2018 - 2019)

Experience

RBC Ventures

System Administrator   Jan 2020 - Current
- Reduced toil and increased efficiency of user onboarding to Ventures VPN by automating user creation, notifying inactive users, and deleting users
- Increased webapp testing for all 23 ventures by creating frontend and backend tests and setting up alerts so that the developers can be informed of their webapp's status
- Codified dashboard modules to be more maintainable for the end-user and follow SRE practices
- Worked on weekly frontend / backend deployments as well as database queries

Skills

- Javascript
- Python
- Java
- React.js
- HTML
- CSS
- PostgreSQL
- Firebase
- Android

Projects

Project Bee (Web App / IoT)
- Developed a beehive monitoring system that allows beekeepers and researchers to track their hives
- **Arduino / Raspberry Pi** microcontrollers track hive data and upload to Firestore backend
- React front end displays real-time data and allows users to manage sharing options
- Applied **React** skills, and gained experiencing using **Firestore's FaaS** offering to augment their cloud database functionality

Dog Breed Identification Network
- Designed two neural networks built using **TensorFlow** to determine the breed of a dog from an image
- One network was built from scratch and the other utilized transfer learning and the Inception v3 model
- Learned about convolutional neural networks and strengthened **Python** and data science skills